

Claims:

1. A device for continuous gravimetric metering and pneumatic conveying of pourable material, which is guided using a metering rotor (1), positioned pressure-tight in the housing (2) and provided with conveyor pockets (1a), over a measuring length, the housing (2) having a pourable material delivery station and an emptying station having connections to feed/removal lines (4, 5) of a pneumatic conveyor system and being connected to a force measurement device, via which the torque load exerted on the metering rotor (1) by the material conveyed may be determined, and the feed line and removal line of the pneumatic conveyor system being connected to the bottom of the housing (2), characterized in that the flow deflection from the feed line (4) to the removal line (5) is positioned inside the upper region of the housing (2).
2. The device according to Claim 1, characterized in that the feed line (4) of the pneumatic conveyor system (3) is connected to radially internal openings (8) in the metering rotor (1).
3. The device according to Claim 2, characterized in that the openings (8) are implemented in the form of shafts, which are positioned concentrically to one another.
4. The device according to one of Claims 1 through 3, characterized in that the housing (2) is closed on top (2a) by a sealing plate (2b).
5. The device according to one of Claims 1 through 4, characterized in that the flow deflection inside the housing (2) is implemented at the emptying station in the form of a deflection curve (2c).

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6. The device according to one of Claims 1 through 5, characterized in that the conveyor pockets (1a) of the metering rotor (1) are positioned concentrically to one another.
7. The device according to Claim 6, characterized in that a collection funnel (9), for transferring the cross-section of the conveyor pockets (1a) to the tubular cross-section of the removal line (5), is implemented on the bottom of the housing (2).
8. The device according to one of Claims 1 through 7, characterized in that the connection (5a) of the removal line (5) is implemented as a double connecting piece.
9. The device according to one of Claims 1 through 8, characterized in that the feed line (4) and the removal line (5) are connected to one another laterally from the housing (2) by a clamp (10).
10. The device according to one of Claims 1 through 9, characterized in that compensators (11) of the feed line (4) and the removal line (5) are attached to a shared bracket (12) laterally from the housing (2).